Attachment #10



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**U.S. PATENT DOCUMENTS**

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**FOREIGN PATENT DOCUMENTS**

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| | | | | | | | | |

**OTHER DOCUMENTS (Including Author, Title, Journal-Date, Page Number, Etc.)**

| | | |
|---|---|---|
| MD | AA | Blacker, D., M.A. Wilcox, N.M. Laird, L. Rodes, S.M. Horvath, R.C. Go, R. Perry, B.J. Watson, 5.5 Bassett, M.G. McInnis, et al. 1998. Alpha-2 macroglobulin is genetically associated with Alzheimer disease. *Nat. Gene.* 19;357-360 |
| | AB | Buscigho, J., H. Harmann, A. Lorenzo, C. Wong, K. Baumarn, B. Sommer, M. Staufenbiel, and B.A. Yanlcner. 1997. Neuronal localization of presenilin-1 and association with amyloid plaques and neurofibrillary tangles in AD. *J Neurosci.* 17:5101-5107 |
| | AC | Capell, A., R. Saffrich, J.C. Olivo, L. Meyn, J. Walter, J. Orunberg, P. Mathews, R. Nixon, C. Dotti, and C. Haass. 1997. Cellular expression and proteolytic processing of presenilin proteins is developmentally regulated during neuronal differentiation. *J Neurochem.* 69:2432-2440 |
| | AD | Caulin, C., G.S. Salvesen, and R.G. Oshima. 1997. Caspase cleavage of keratin 18 and reorganization of intermediate filaments during epithelial cell apoptosis. *J Cell Biol.* 138:1379-1394 |
| | AE | Corder, E.H., A.M. Saunders, W.J. Strittmatter, D.F. Schmechel, P.C. Gaskell, G.W. Small, A.D. Roses, J.L. Haines, and M.A. Pericak-Vance. 1993. Gene dose apolipoprotein E type 4 allele and the risk of AD in late onset families. *Science* 261:921-923 |
| | AF | Deng, G., C.J. Pike, and C.W. Cotman. 1996. Alzheimer-associated presenilin-2 confers increased sensitivity to apoptosis in PC12 cell. *FEBS Letts.* 397:50-54 |
| | AG | Dewji, N.N., C. Do, and S.J. Singer. 1997. On the spurious endoproteolytic processing of the presenilin proteins in cultured cells and tissues. *Proc. Natl Acad Sci.* 94:14031-14036 |
| | AH | Dewji, N.N., and S.J. Singer. 1997. Cell surface expression of the Alzheimer disease-related presenilin proteins. *Proc. Natl. Acad Sci. USA* 94:9926-9931 |
| | AI | Golemis, E., J. Gynris, and R. Brent. 1996. Interaction trap/two-hybrid system to identify interacting proteins. *In* Current Protocols in Molecular Biology, R. B. F.A. Ausubel, R.E. Kingston, D.D. Moore, J.G. Seidman, J.A. Smith, K, Struhl, ed. (New York: John Wiley & Sons), pp. 20.1.1-20.1.28 |
| | AJ | Guo, Q., K. Furukawa, B.L. Sopher, D.G. Pham, J. Xie, N. Robinson, G.M. Martin, and M.P. Mattson. 1996. Alzheimer's PS-1 mutation perturbs calcium homeostasis and sensitizes PC 12 cells to death induced by amyloid β peptide. *Neuroreport* 8:379-383 |

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| EXAMINER | DATE CONSIDERED |
|---|---|
| M. T. DAVIS | 01/21/03 |

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| | | |
|---|---|---|
| ✓ | AK | Guo, Q., B.L. Sopher, K. Furukawa, D.G. Pham, N. Robinson, G.M. Martin, and M.P. Mattson. 1997. Alzheimer's presenilin mutation sensitizes neural cells to apoptosis induced by trophic factor withdrawal and amyloid beta-peptide: involvement of calcium and oxyradicals. *J Neurosci.* 17:4212-4222 |
| ✓ | AL | Guo, Q., N. Robinson, and M. Mattson. 1998. Secreted β-amyloid precursor protein counteracts the proapoptotic action of mutant presenilin-1 by activation of NF-κβ and stabilization of calcium homeostasis. *J Biol. Chem.* 273:12341-12351 |
| ✓ | AM | Guo, Q., S. Christakos, N. Robinson, and M.P. Mattson. 1998. Calbindin D28k blocks the proapoptotic actions fo mutant presenilin 1: reduced oxidative stress and preserved mitochondrial function. *Proc. Natl. Acad Sci. USA* 95:3227-3232 |
| ✓ | AN | Haass, C. 1997. Presenilins: Genes for life and death. *Neuron* 18:687-690 |
| ✓ | AO | Hardy, J. 1997. Amyloid, the presenilins and Alzheimer's disease. *TINS* 20:155-159 |
| ✓ | AP | Janicki, S., and M.J. Monteiro. 1997. Increased apoptosis arising from increased expression of the Alzheimer's disease-associated presenilin-2 mutation (N1411). *J Cell Biol.* 139:485-495 |
| ✓ | AQ | Janicki, S., and M.J. Monteior. 1999. Presenilin overexpression arrests cells in the Gi phase of the cell cycle: arrest potentiated by the Alzheimer's disease PS2(N1411) mutant. *Am. J Pathol.* 155, 135-144 |
| ✓ | AR | Janicki, S.M., S.M. Stabler, and M.J. Monteiro. 2000. Familial Alzheimer's disease presenilin-1 mutants potentiate cell cycle arrest. *Neurobiol Aging.* 21:829-836 |
| ✓ | AS | Keller, J.N., Q. Guo, F.W. Holtsberg, A.J. Bruce-Keller, and M.P. Mattson. 1998 Increased sensitivity to mitochondrial toxin-induced apoptosis in neural cells expressing mutant presenilin-1 is linked to perturbed calcium homeostasis and enhanced oxyradical production. *J Neurosci.* 18:4439-4450 |
| ✓ | AT | Kim, T.W., W.R. Pettingell, Y.K. Jung, D.M. Kovacs, R.E. Tanzi. 1997. Alternative cleavage of Alzheimer-associated presenilins during apoptosis by a caspase-3 family protease. *Science* 277:373-376 |
| ✓ | AU | Kobayashi, M., K. Takamatsu, S. Saitoh, and T. Noguchi. 1993. Myristoylation of hippocalcin is linked to it calcium-dependent membrane association properties. *J. Biol. Chem.* 268(25): 18898-18904 |

Continue on Page 3

| EXAMINER | DATE CONSIDERED |
|---|---|
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**OTHER DOCUMENTS (Including Author, Title, Journal-Date, Page Number, Etc.)**

| | | |
|---|---|---|
| TLS ✓ | AV | Kovacs, D.M., H.J. Fausett, K.J. Page, T.W. Kim, W.D. Moir, D.E. Merriam, R.D. Hollister, O.G. Hallmark, R. Mancini, K.M. Felsenstein, et al. 1996. Alzheimer-associated presenilins 1 and 2: neuronal expression in brain and localization to intracellular membranes in mammalian cells. *Nature Med* 2:224-229 |
| ✓ | AW | Lee, M.K., Z. Xu, P.C. Wong, and D.W. Cleveland. 1993. Neurofilaments are obligate heteropolymers *in vivo*. *J. Cell Biol.* 122:1337-1350 |
| ✓ | AX | Leissring, M.A., Parker, I. And LaFerla, F.M. 1999. Presenilin-2 mutations modulate amplitude and kinetics of inositol 1, 4,5-trisphosphate-mediated calcium signals. *J Biol. Chem.* 274, 32535-32538 |
| ✓ | AY | Li, J., M. Xu, H. Thou, J. Ma, and H. Potter. 1997. Alzheimer presenilins in the nuclear membrane, interphase kinetochores, and centrosomes suggest a role in chromosome segregation. *Cell* 90:917-927 |
| ✓ | AZ | Loetscher, H., U. Deuschle, M. Broclchaus, D. Reinbardt, P. Nelboeck, J. Mous, J. Grunberg, C. Haass, H. Jacobsen. 1997. Presenilins are processed by caspase-type proteases. *J. Biol. Chem.* 272(33):20655-20659 |
| ✓ | BA | Mical, T.I., and M.J. Monteiro. 1998. The role of sequences unique to nuclear intermediate filaments in the targeting and assembly of human lamin B: Evidence for lack of interaction of lamin B with its putative receptor. *J Cell Sci.* 111:3471-3485 |
| ✓ | BB | Monteiro, M.J., C. Hicks, L. Gu, and S. Janicki. 1994. Determinants for intracellular sorting of cytoplasmic and nuclear intermediate filaments. *J Cell Biol* 127:1327-1343 |
| ✓ | BC | Monteiro, M.J., and T. Mical. 1996. Resolution of Kinase activities during the HeLa cell cycle: Identification of kinases with cyclic activities. *Exp. Cell Res.* 223:443-451 |
| ✓ | BD | Montoya, S.F., C.F. Aston, S.T. DeKosky, M. Ilyas Kamboh, J.S. Lazo, and R.E. Ferrell. 1998 Bleomycin hydrolase is associated with risk of sporadic Alzheimer's disease. *Nature Genet.* 18:211-212 |
| ✓ | BE | Naik, U.P., P.M. Patel, and L.V. Parise. 1997. Identification of a novel calcium-binding protein that interacts with the integrin alphaIIb cytoplasmic domain. *J Biol. Chem.* 272:4651-4654 |
| ✓ | BF | Olshevskaya, E.V., R.E. Hughes, J.B. Hurley, and A.M. Dizhoor. 1997. Calcium-binding, but not a calcium –myristoyl switch, controls the ability of guanylyl cyclase-activating protein GCAP-2 to regulate photoreceptor guanylyl cyclase. *J Biol. Chem.* 272:14327-14333 |

Continue on Page 4

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|---|---|---|---|

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**OTHER DOCUMENTS (Including Author, Title, Journal-Date, Page Number, Etc.)**

| | | |
|---|---|---|
| Thi | BG | Pack-Chung, E., Myers, M.B., Pettingell, W.P., Cheng, I., Moir, R.D., Brownawell, A.M., Tanzi, R.E., and Kim, T.W., 2000. Presenilin 2 interacts with sorcin, a modulator of the ryanodine receptor. *J Biochem.* 275:14440-14445 |
| | BH | H. Payami, G.D. Schellenberg, S.,Zareparsi, J. Kay, G.J. Sexton, M.A., Head, S.S. Matsuyama, L.F. Jarvik, B. Miller, D.Q. McManus, et al., 1997. Evidence for association of HLA-A2 allele with onset age of Alzheimer's disease. *Neurology.* 49:512-518 |
| | BI | Pericak-Vance, M.A., M.P. Bass, L.H. Yammaoka, P.C. Gaskell, W.K. Scott, R.A. Terwedow, M.M. Menold, P.M. Conneally, G.W. Small, J.M. Vance, et al. 1997. Complete genomic screen in late-onset familial Alzheimer disease. Evidence for a new locus on chromosome 12. *JAMA* 278:1237-1241 |
| | BJ | Peruz-Tur, J., S. Froelich, G. Prihar, R. Crook, M. Baker, K. Duff, M. Wragg, F. Busfield, C. Lendon, R.F. Clark et al. 1995. A mutation in Alzheimer's disease destroying a splice acceptor site in the presenilin-1 gene. *Neuroreport* 7:297-301 |
| | BK | Reynolds, A., and V. Lundblad. 1989. Yeast vectors and assays for expression of cloned genes in Current Protocols in Molecular Biology, R.B. F.A. Ausubel, R.E. Kingston, D.D. Moore, J.G. Seidman, J.A. Smith, K, Struhi, ed. (New York: John Wiley & Sons), pp. 13.6.1-13.6.4 |
| | BL | Stabler, Stacy M., Identification and Characterization of Calmyrin, a Presenilin 2 Interactor that Modulates Calcium Signaling and Apoptosis. PhD. Dissertation, April 2001 |
| | BM | Smine, A., X. Xu, K. Nishiyama, T. Katada, P. Gambetti, S.P. Yadav, X. Wu, Y.C. Shi, S. Yasuhara, V. Homburger, and T. Okamoto. 1998. Regulation of brain G-protein Go by Alzheimer's disease gene presenilin-1. *J Biol. Chem.* 273:16281-16288 |
| | BN | Thinakaran, G., D.R. Borchelt, M.K. Lee, H.H. Slunt, L. Spitaer, G. Kim, T. Ratovitsky, F. Davenport, C. Nordstedt, M. Seeger, et al. 1996. Endoproteolysis of presenilin 1 and accumulation of processed derivatives *in vivo. Neuron* 17:181-190 |
| | BO | Vito, P., E. Lacana, and L.D. D'Adamio. 1996a. interfering with apoptosis: $Ca^{2+}$-binding protein ALG-2 and Alzheimer's disease gene ALG-3 *Science* 271:521-525 |
| | BP | Vito, P., B. Wolozin, J.K. Ganjei, K. Iwasaki, B. Lacana, and L.D. D'Adamino. 1996b. Requirement of the familial Alzheimer's disease gene P52 for apoptosis. *J Biol Chem.* 271:31025-31028 |
| | BQ | Vito, P., et al. 1997. Generation of anti-apoptotic presenilin-2 polypeptides by alternative transcription, proteolysis, and caspase-3 cleavage. *J Biol. Chem.* 272:28315-28320 |

Continue on Page 5

| EXAMINER | DATE CONSIDERED |
|---|---|
| M. T. Davis | 01/23/03 |

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| | | | | | | | | |

**OTHER DOCUMENTS (Including Author, Title, Journal-Date, Page Number, Etc.)**

| | | |
|---|---|---|
| | BR | Wilcox, C., J.S. Hu, and E.N. Olson. 1987. Acylation of proteins with myristic acid occurs cotranslationally. *Science* 238:1275-1278 |
| | BS | Wolozin, B., P. Alexander, and J. Palacino. 1998. Regulation of apoptosis by presenilin 1. *Neurobiol. Aging* 19:S23-S27 |
| | BT | Wolozin, B., K. Iwasaki, P. Vito, J.K. Ganjei, B. Lacana, T. Sunderland, B. Zhao, J.W. Kusiak, Wasco, W., and L. D'Adamio. 1996. Participation of presenilin 2 in Apoptosis: enhanced basal activity conferred by an AD mutation. *Science* 274:1710-1713 |
| | BU | Woo, R.A., K.G. McLure, S.P. Lees-Miller, D.E. Rancourt, P.W.K. Lee. 1998. DNA-dependent protein kinase acts upstream of p53 in response to DNA damage. *Nature* 394:700-704 |
| | BV | Wu, J.M., Y. Chen, S.M.L. Perruccio, M. Adbel-Ghany, and T.H. Carter. 1993. Phosphorylation of protein tau by double-stranded DNA-dependent protein kinase. *Biochem. Biophys. Res. Commun.* 193(1):13-18 |
| | BW | Ye, Y., and M.E. Fortini. 1998. Characterization of Drosophila Presenilin and its colocalization with Notch during development. *Mech. Dev.* 79:199-211 |
| | BX | Lessring, M.A., B.A. Paul, 1.Parker, C.W. Cotman, and F.M. LaFerla. 1999. Alzheimer's presenilin-1 mutation potentiates inositol 1,4,5-trisphosphate-mediated calcium signaling in Zenopus ooctyes. *J Neurochem.* 72:1061-1068 |
| | | |

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